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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,408	07/09/2001	Charles L. Hett	H0001382-US	6452

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EXAMINER

SEFER, AHMED N

ART UNIT	PAPER NUMBER
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2826

DATE MAILED: 07/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No. 09/901,408	Applicant(s) HETT ET AL.	
	Examiner A. Sefer	Art Unit 2826	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 22 April 2005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 15-39 is/are pending in the application.
- 4a) Of the above claim(s) 15-29 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 30-39 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 4/22/05 has been entered. Claims 1-5 and 7-14 have been cancelled and new claims 30-39 have been added.

### ***Drawings***

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the first and second data sources must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet"

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pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

***Specification***

3. The disclosure is objected to because of the following informalities: “the bottom display unit” recited in claims 38 and 39 should read “the bottom display units’.

Appropriate correction is required.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

5. Claim 30 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The application as originally filed does not specifically support the claim limitation “a first channel processor coupled to first and second data sources ... a second channel processor coupled to first and second data sources ... wherein the first and second channel processors control the data from the data sources ...”

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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7. Claim 36-39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 36-39 recite the limitation "the first and the second display units" or "the first display unit ... the second display unit". There is insufficient antecedent basis for this limitation in the claims.

***Claim Rejections - 35 USC § 102***

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 30, 31, 34 and 35-39, as understood, are rejected under 35 U.S.C. 102(b) as being anticipated by Nishida USPN 5,767,818.

Nishida discloses in figs. 6-10 a liquid crystal display system comprising four autonomous liquid crystal display units arranged adjacent to each other, each of the liquid crystal display units including an array of lighting elements 83; a housing 200 comprising a structural support system 202 and transparent cover 82, said housing substantially surrounding said units; and a channelization system in communication with said units, said channelization system comprising a first channel processor 51-53 coupled to first and second data sources and to first and second liquid crystal display units; and a second channel processor 51-53 coupled to the first and second data sources and to third and fourth liquid crystal display units, wherein the first and second channel processors control the data from the data sources displaying data from the same

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data source (as in claim 34) to present on the respectfully coupled displays (see figs. 3, 14 and 18).

Regarding claim 31, Nishida discloses a structural support system comprising a frame 201 secured to a cavity and enclosing a transparent cover and said units.

Regarding claims 35-39, Nishida discloses said arranged display units comprising top display units and bottom display units including the first and the second display units (as in claim 36); wherein the bottom display units include the first and the second display units (as in claim 37); wherein the top display units include the first display unit and the bottom display unit includes the second display unit (as in claim 38); and wherein the top display units include the second display unit and the bottom display unit includes the first display unit (as in claim 39).

### ***Claim Rejections - 35 USC § 103***

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

11. Claims 30-34, as understood, are rejected under 35 U.S.C. 103(a) as being unpatentable over Orava et al. ("Orava") USPN 5,812,191 in view of Seraphim USPN 5,889,568.

Orava discloses (see figs. 1-9 and col. 20, lines 23-46) a liquid crystal display system comprising four autonomous liquid crystal display units arranged adjacent to each other, each of the liquid crystal display units including an array of lighting elements D11; a housing 218 comprising a structural support system 210, said housing substantially surrounding said units;

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and a channelization system in communication with said units, said channelization system comprising a first channel processor 24 (fig. 5A) coupled to first and second data sources and to first and second liquid crystal display units; and a second channel processor 24 coupled to the first and second data sources and to third and fourth liquid crystal display units, wherein the first and second channel processors control the data from the data sources displaying data from the same data source (as in claim 34) to present on the respectfully coupled displays, but does not specifically disclose a transparent cover.

Seraphim discloses (see figs. 6, 12 and 15 and col. 6, lines 23-31) a plurality of autonomous liquid crystal display units in a tiled arrangement, each of said units configured to display a data; a housing comprising a structural support 62 and transparent cover 50.

Therefore, it would have been obvious to one skilled in the art at the time the invention was made to incorporate Seraphim's teachings with Orava's device since that would provide an environmental protection as taught by Seraphim.

As for claims 31 and 32, Seraphim discloses (see fig. 4, col. 5, lines 25-35 and col. 6, lines 23-31) a structural support system comprising a frame (not shown) secured to a cavity and enclosing a transparent cover and said units, wherein said structural support system comprises a carrier 75 having said units disposed therein (as in claim 32).

As for claim 33, Seraphim discloses in figs. 8 and 9 a screen divider (unnumbered) between said cover and said units.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. Sefer whose telephone number is (571) 272-1921.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ANS  
July 10, 2005



NATHAN J. FLYNN  
PATENT EXAMINER  
TECHNOLOGY CENTER 2800